

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A channel structuring method of configuring channels wherein transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, said method comprising:

providing time frames by segmenting a communication channel of said n ~~sub-carriers~~ sub-carriers at every predetermined interval;

selecting from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and common pilot signals; and

inserting ~~[[both]]~~ a common control channel signal and a common pilot signal into the time frames by time division multiplexing with respect to ~~at least one of~~ the selected sub-carriers while ensuring that at least one of the selected sub-carriers has both a common control channel signal and a common pilot signal inserted therein.

Claim 2 (Currently Amended): A channel structuring method as claimed in claim 1, wherein:

the common control channel signal and the common pilot signal are inserted periodically into every time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 3 (Currently Amended): A channel structuring method as claimed in claim 2, wherein, in regard to the common control channel signal and the common pilot signal periodically inserted into every time frame of said selected ~~subcarriers~~ sub-carriers, either the common control channel signal or the common pilot signal, or both thereof, is/are inserted at

the same timing as either the common control channel signal or the common pilot signal, or both thereof of other ~~subcarriers~~ sub-carriers.

Claim 4 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common control channel signal is inserted continuously into the time frame of said selected ~~subcarriers~~ sub-carriers, and the common pilot signal is inserted periodically into every time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 5 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common pilot signal is inserted continuously into the time frame of said selected ~~subcarrier~~ sub-carrier, and the common control channel signal is inserted periodically into every time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 6 (Canceled).

Claim 7 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common control channel signal is inserted continuously into the time frame of said selected ~~subcarriers~~ sub-carriers, and the common pilot signal is inserted continuously into the time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 8 (Currently Amended): A base station in which transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, comprising:

a common channel signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and inserting a common control channel signal into the selected sub-carriers, and

a pilot signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common pilot signal and inserting a common pilot signals into the selected sub-carriers, wherein time frames are provided by segmenting a communication channel of said n subcarriers at every predetermined interval, and ~~[[both]]~~ a common control channel signal and a common pilot signal are inserted into the time frames by time division multiplexing with respect to at least one of the selected sub-carriers while ensuring that at least one of the selected sub-carriers has both a common control channel signal and a common pilot signal inserted therein.

Claim 9 (Currently Amended): A base station as claimed in claim 8, wherein the common control channel signal and the common pilot signal are inserted periodically into every time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 10 (Currently Amended): A base station as claimed in claim 8, wherein said common pilot signal insertion unit selects a predetermined number of ~~subcarriers~~ sub-carriers from said n ~~subcarriers~~ sub-carriers, and inserts the common pilot signal periodically into every time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 11 (Currently Amended): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of ~~subcarriers~~
sub-carriers from said n ~~subcarriers~~ sub-carriers and inserting the common pilot periodically
into every time frame of said selected ~~subcarriers~~ sub-carriers, and
said common control channel signal insertion unit and said common pilot signal
insertion unit insert the common control channel signal and the common pilot signal,
respectively, into said selected ~~subcarriers~~ sub-carriers such that a timing of the insertion of
either the common control channel signal or the common pilot signal, or both, are same as the
timing of either the common control channel signal or the common pilot signal, or both, of
other ~~subcarriers~~ sub-carriers.

Claim 12 (Currently Amended): A base station as claimed in claim 8, wherein
the common control channel signal is inserted continuously into every time frame of
said selected ~~subcarriers~~ sub-carriers, and
the common pilot signal is inserted periodically into every time frame of said selected
~~subcarriers~~ sub-carriers.

Claim 13 (Currently Amended): A base station as claimed in claim 8, wherein
the common pilot signal is inserted continuously into every time frame of said
selected ~~subcarriers~~ sub-carriers, and
the common control channel signal is inserted periodically into every time frame of
sale selected ~~subcarriers~~ sub-carriers.

Claim 14 (Canceled).

Claim 15 (Currently Amended): A base station as claimed in claim 8, wherein
the common control channel signal is inserted continuously into every time frame of
said selected ~~subcarriers~~ sub-carriers, and
the common pilot signal is inserted continuously into every time frame of said
selected ~~subcarriers~~ sub-carriers.

Claim 16 (Canceled).

Claim 17 (Currently Amended): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of ~~subcarriers~~
sub-carriers from said n ~~subcarriers~~ sub-carriers, and inserts the common pilot signal
periodically into every time frame of said selected ~~subcarriers~~ sub-carriers.

Claim 18 (Canceled).